TUGAS KEEMPAT

STATISTIKA DESKRIPTIF

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S1 SISTEM INFORMASI

FAKULTAS SAINS DAN TEKNOLOGI

UNIVERSITAS AIRLANGGA

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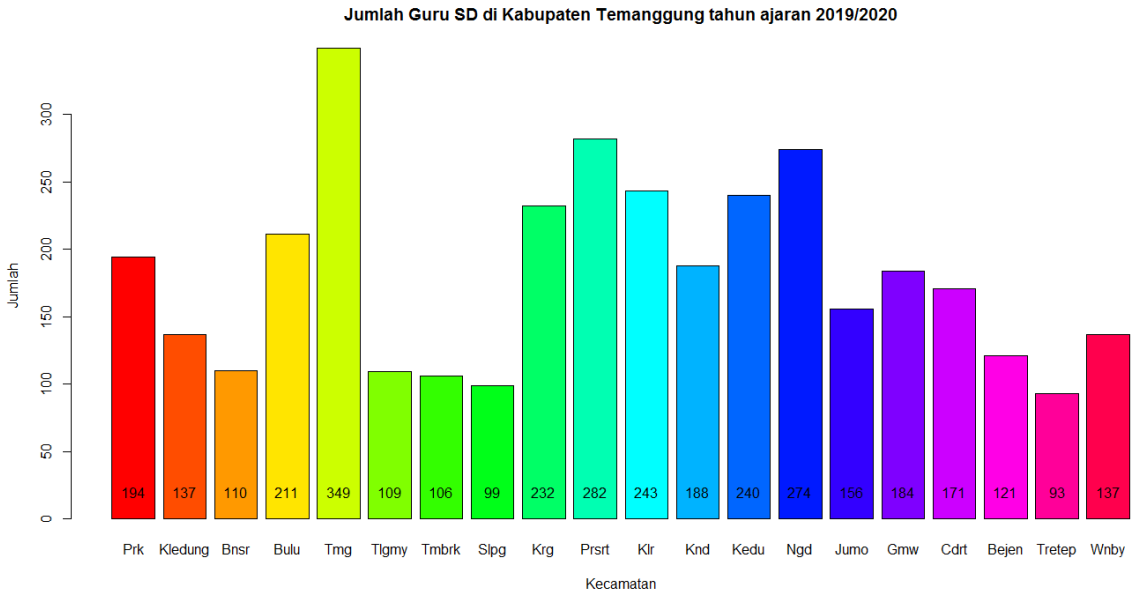
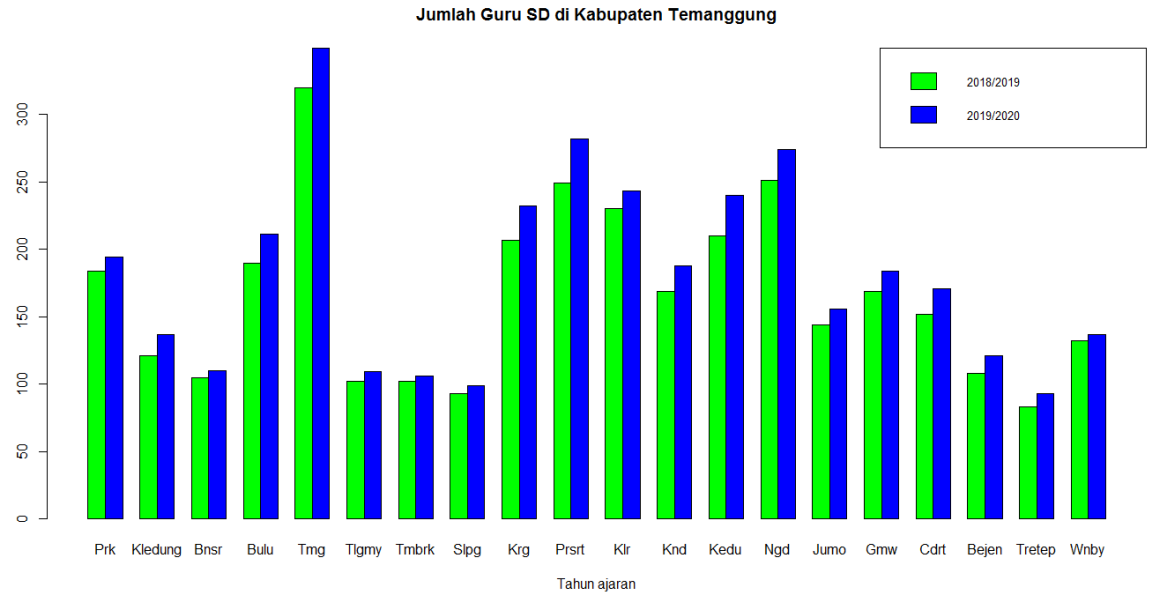
Notebook R beserta Output

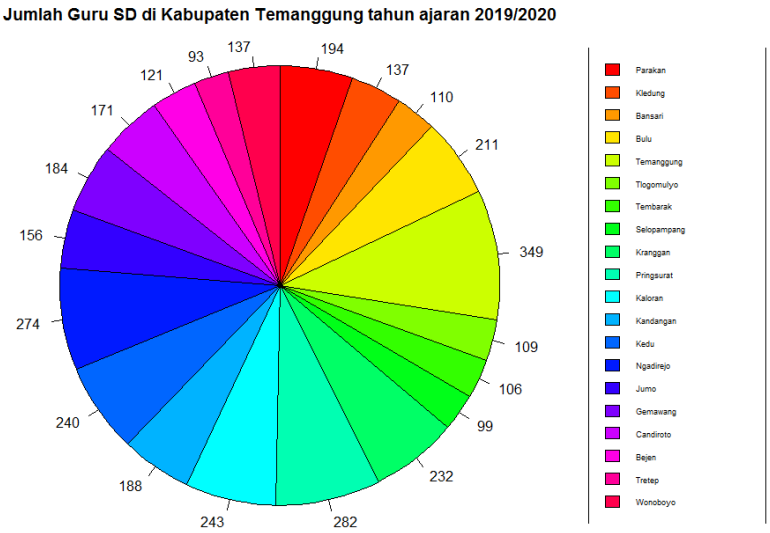
```
# Import data

library(readxl)
JmlGuruSD <- read_excel("D:/ikhsan/UNAIR/SEMESTER 2/STATISTIKA
DESKRIPTIF/Task/JmlGuru.xlsx", range = "A2:C22")

library(readxl)
Jml2018_MEI <- read_excel("D:/ikhsan/UNAIR/SEMESTER 2/STATISTIKA
DESKRIPTIF/Task/Jml2018_5.xlsx", range = "A2:D269")

library(readxl)
Jml2019_MEI <- read_excel("D:/ikhsan/UNAIR/SEMESTER 2/STATISTIKA
DESKRIPTIF/Task/Jml2019_5.xlsx", range = "A2:D269")

library(readxl)
PenjMotor <- read_excel("D:/ikhsan/UNAIR/SEMESTER 2/STATISTIKA
DESKRIPTIF/Task/PenjMotor.xlsx")



# membuat Bar-plot (1 data)

BarGuru <- barplot(JmlGuruSD$`2019/2020`, col = rainbow(20) , main =
"Jumlah Guru SD di Kabupaten Temanggung tahun ajaran 2019/2020",
xlab = "Kecamatan", ylab = "Jumlah", names.arg = c( "Prk",
"Kledung", "Bnsr", "Bulu", "Tmg", "Tlgmy", "Tmbrk", "Slpg", "Krg",
"Prsrt", "Klr", "Knd", "Kedu", "Ngd", "Jumo", "Gmw", "Cdrt",
"Bejen", "Tretep", "Wnby"))

text(BarGuru, 20, JmlGuruSD$`2019/2020`)
```



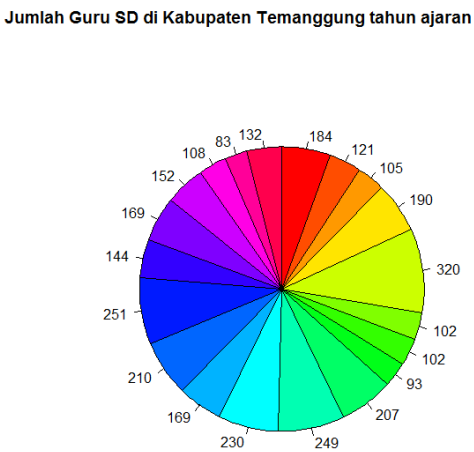
```
# membuat Bar-plot (2 data)

barplot(t(matrix(NewData,nrow = 20, ncol = 2, byrow = FALSE,
dimnames = list(c("Prk", "Kledung", "Bnsr", "Bulu", "Tmg", "Tlgmy",
"Tmbrk", "Slpg", "Krg", "Prsrt", "Klr", "Knd", "Kedu", "Ngd",
"Jumo", "Gmw", "Cdrt", "Bejen", "Tretep", "Wnby")) )), main =
"Jumlah Guru SD di Kabupaten Temanggung", xlab = "Tahun ajaran", col
= c("green", "blue"), beside = TRUE, legend = c("2018/2019",
"2019/2020"), args.legend = list(cex = 0.8, x = "topright"))
```

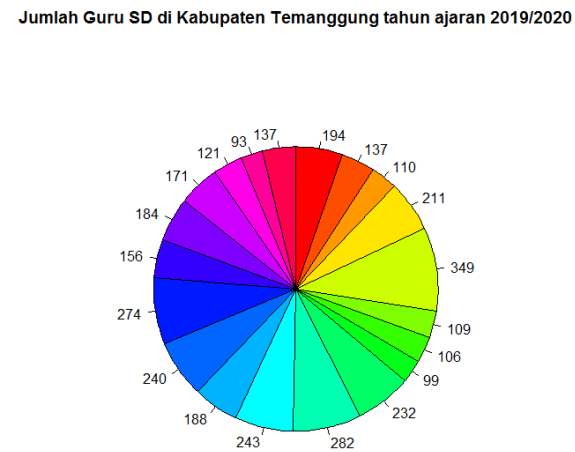



```
# membuat Pie-chart (1 data)

pie(JmlGuruSD$`2019/2020`,radius = 1, clockwise = TRUE, labels =
JmlGuruSD$`2019/2020`, main = "Jumlah Guru SD di Kabupaten
Temanggung tahun ajaran 2019/2020", col = rainbow(20))
colors = rainbow(20)
legend(1, 0.5, c("Parakan", "Kledung", "Bansari", "Bulu",
"Temanggung", "Tlogomulyo", "Tembarak", "Selopampang", "Kranggan",
"Pringsurat", "Kaloran", "Kandangan", "Kedu", "Ngadirejo", "Jumo",
"Gemawang", "Candiroto", "Bejen", "Tretep", "Wonoboyo"), cex = 0.55,
fill = colors, xjust = -0.5, yjust = 0.73)
```

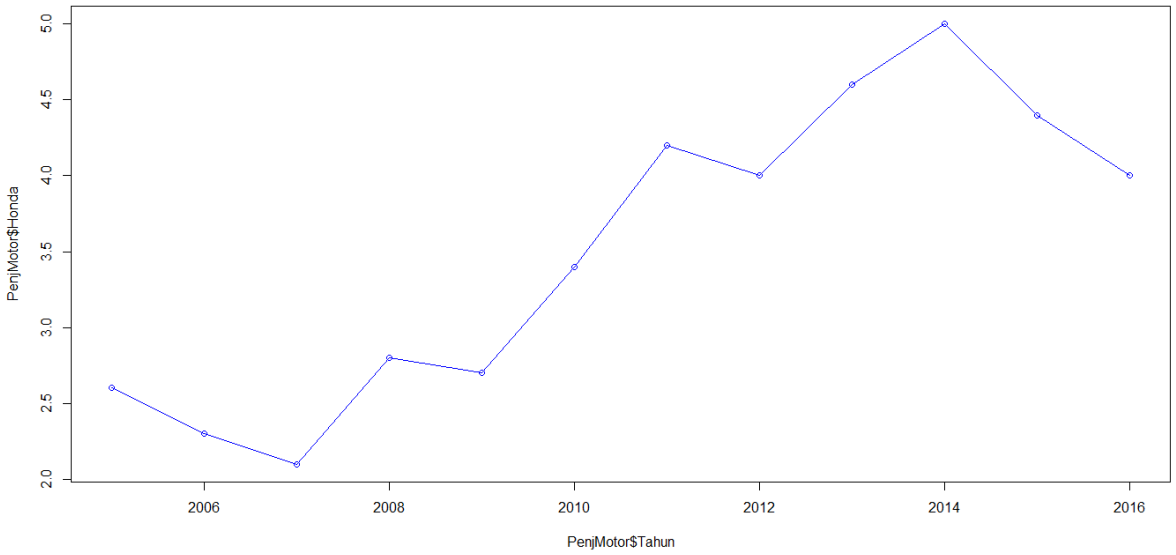



```
# membuat Pie-chart (2 data)

par(mfrow = c(1,2))
pieA = pie(JmlGuruSD$`2018/2019`,radius = 1, clockwise = TRUE,
labels = JmlGuruSD$`2018/2019`, main = "Jumlah Guru SD di Kabupaten
Temanggung tahun ajaran 2018/2019", col = rainbow(20))
pieB = pie(JmlGuruSD$`2019/2020`,radius = 1, clockwise = TRUE,
labels = JmlGuruSD$`2019/2020`, main = "Jumlah Guru SD di Kabupaten
Temanggung tahun ajaran 2019/2020", col = rainbow(20))
par(mfrow = c(1,1))
```

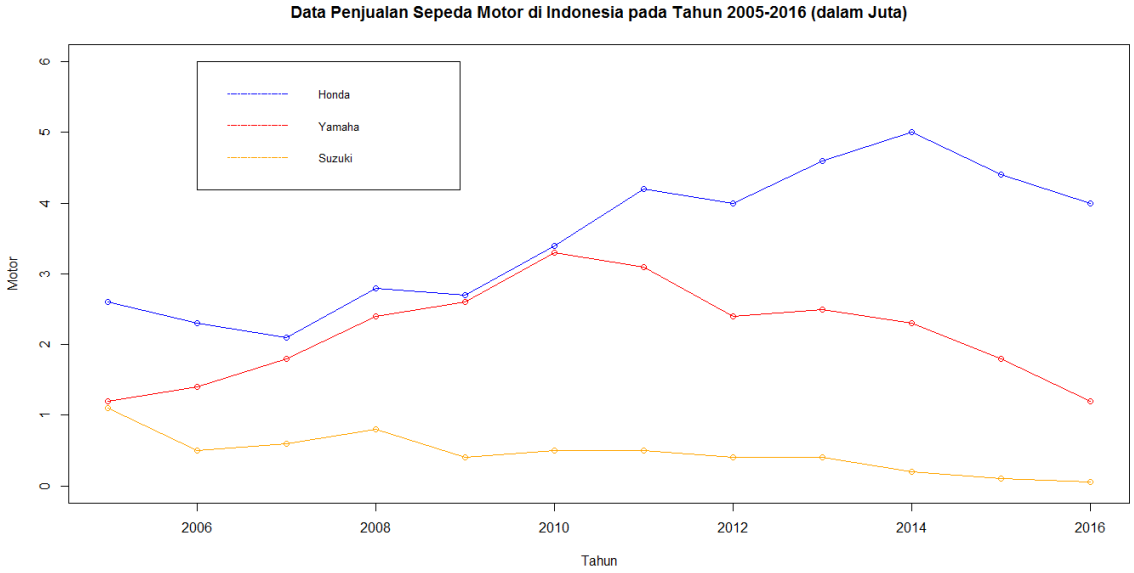




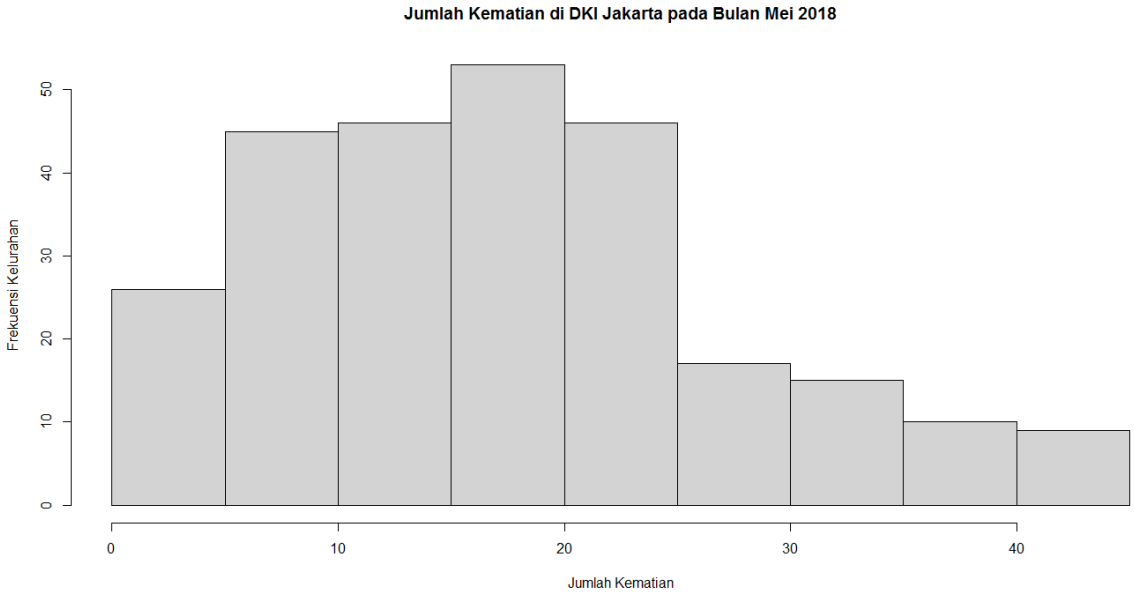
```
# membuat Line-plot (1 data)

plot(PenjMotor$Tahun, PenjMotor$Honda, type = "o", col = "blue")
```



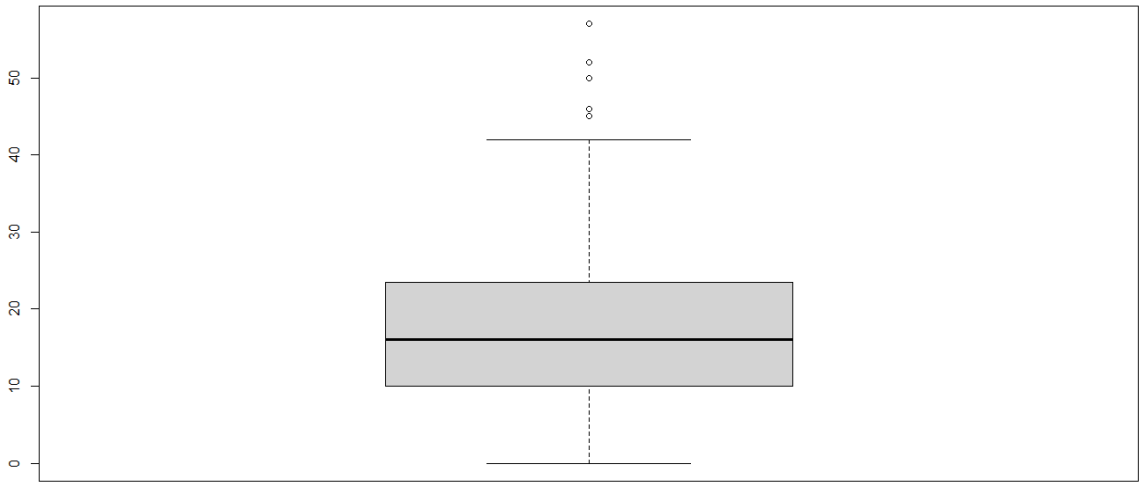

```
# membuat Line-plot (2 data)

Tahun = PenjMotor$Tahun
Motor = PenjMotor$Honda
Yamaha = PenjMotor$Yamaha
Suzuki = PenjMotor$Suzuki
plot(Tahun, Motor, ylim = c(0,6), type = "o", col = "blue", main =
"Data Penjualan Sepeda Motor di Indonesia pada Tahun 2005-2016
(dalam Juta)")
lines(Tahun, Yamaha, type = "o", col = "red")
lines(Tahun, Suzuki, type = "o", col = "Orange")
legend(2006, 6, c("Honda", "Yamaha", "Suzuki"), cex = 0.8, col =
c("blue", "red", "orange"), lty = 30)
```



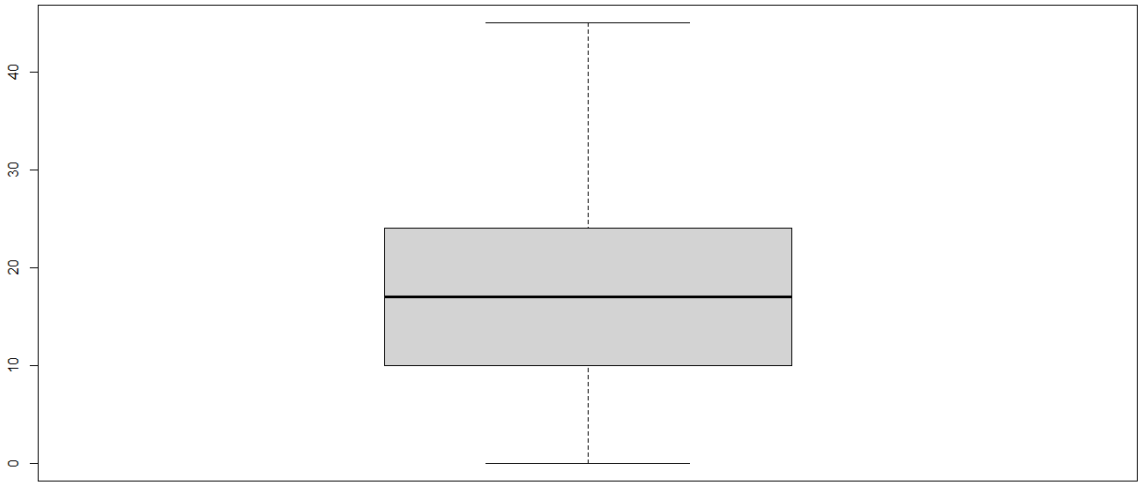
```
# membuat Histogram (1 data)

hist(Jml2018_MEI$JUMLAH, main = "Jumlah Kematian di DKI Jakarta pada
Bulan Mei 2018", xlab = "Jumlah Kematian", ylab = "Frekuensi
Kelurahan")
```



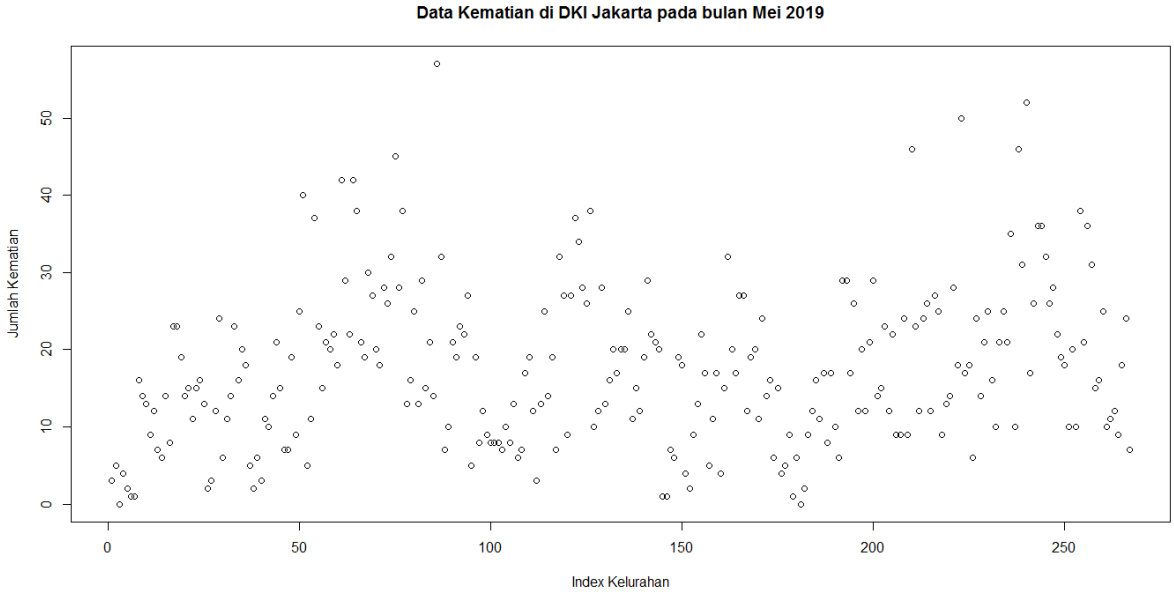

```
# membuat Box-plot (dengan outlier)

boxplot(Jml2019_MEI$JUMLAH)
boxplot.stats(Jml2019_MEI$JUMLAH)$out
```



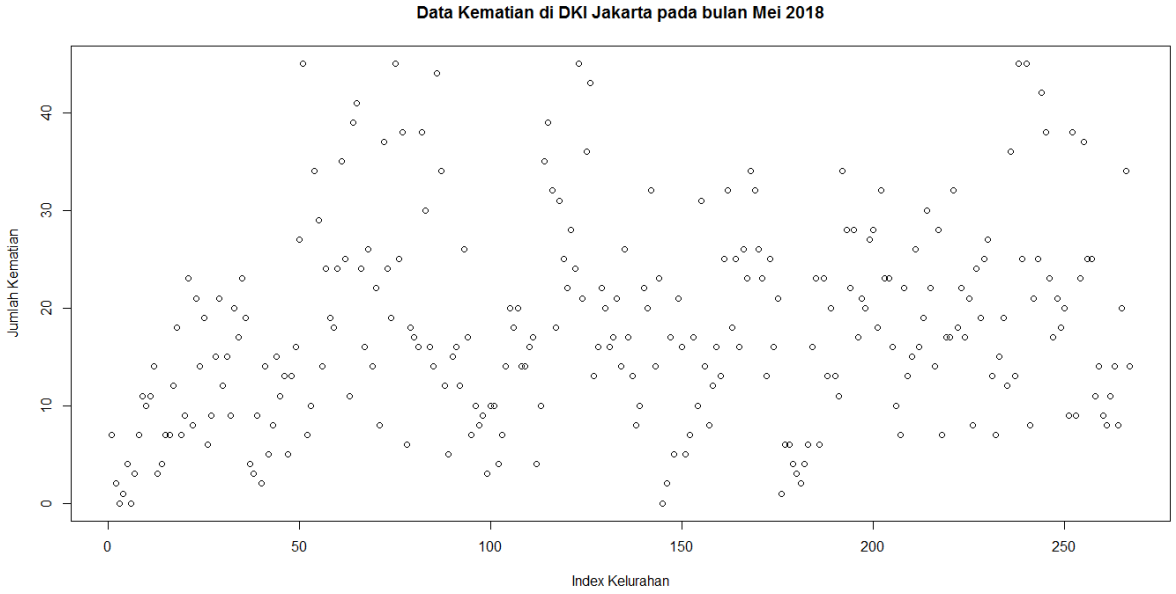
```
# membuat Box-plot (tanpa outlier)

boxplot(Jml2018_MEI$JUMLAH)
boxplot.stats(Jml2018_MEI$JUMLAH)$out
```




```
# membuat Scatter-plot (dengan outlier)

plot(Jml2019_MEI$JUMLAH, xlab = "Index Kelurahan", ylab = "Jumlah
Kematian", main = "Data Kematian di DKI Jakarta pada bulan Mei
2019")
```




```
# membuat Scatter-plot (tanpa outlier)

plot(Jml2018_MEI$JUMLAH, xlab = "Index Kelurahan", ylab = "Jumlah
Kematian", main = "Data Kematian di DKI Jakarta pada bulan Mei
2018")
```


Data Kematian di DKI Jakarta pada bulan Mei 2018
Jumlah Kematian
0
10
20
30
40
0
50
100
150
200
250
Index Kelurahan

History

```
library(readxl)
JmlGuruSD <- read_excel("D:/ikhsan/UNAIR/SEMESTER 2/STATISTIKA
DESKRIPTIF/Task/JmlGuru.xlsx", range = "A2:C22")

library(readxl)
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DESKRIPTIF/Task/PenjMotor.xlsx")

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xlab = "Kecamatan", ylab = "Jumlah", names.arg = c( "Prk",
"Kledung", "Bnsr", "Bulu", "Tmg", "Tlgmy", "Tmbrk", "Slpg", "Krg",
"Prsrt", "Klr", "Knd", "Kedu", "Ngd", "Jumo", "Gmw", "Cdrt",
"Bejen", "Tretep", "Wnby"))
text(BarGuru, 20, JmlGuruSD$`2019/2020`)

barplot(t(matrix(NewData,nrow = 20, ncol = 2, byrow = FALSE,
dimnames = list(c("Prk", "Kledung", "Bnsr", "Bulu", "Tmg", "Tlgmy",
"Tmbrk", "Slpg", "Krg", "Prsrt", "Klr", "Knd", "Kedu", "Ngd",
"Jumo", "Gmw", "Cdrt", "Bejen", "Tretep", "Wnby")) )), main =
"Jumlah Guru SD di Kabupaten Temanggung", xlab = "Tahun ajaran", col
= c("green", "blue"), beside = TRUE, legend = c("2018/2019",
"2019/2020"), args.legend = list(cex = 0.8, x = "topright"))

pie(JmlGuruSD$`2019/2020`,radius = 1, clockwise = TRUE, labels =
JmlGuruSD$`2019/2020`, main = "Jumlah Guru SD di Kabupaten
Temanggung tahun ajaran 2019/2020", col = rainbow(20))
colors = rainbow(20)
legend(1, 0.5, c("Parakan", "Kledung", "Bansari", "Bulu",
"Temanggung", "Tlogomulyo", "Tembarak", "Selopampang", "Kranggan",
"Pringsurat", "Kaloran", "Kandangan", "Kedu", "Ngadirejo", "Jumo",
"Gemawang", "Candiroto", "Bejen", "Tretep", "Wonoboyo"), cex = 0.55,
fill = colors, xjust = -0.5, yjust = 0.73)

par(mfrow = c(1,2))
pieA = pie(JmlGuruSD$`2018/2019`,radius = 1, clockwise = TRUE,
labels = JmlGuruSD$`2018/2019`, main = "Jumlah Guru SD di Kabupaten
Temanggung tahun ajaran 2018/2019", col = rainbow(20))
```

```
pieB = pie(JmlGuruSD$`2019/2020`,radius = 1, clockwise = TRUE,
labels = JmlGuruSD$`2019/2020`, main = "Jumlah Guru SD di Kabupaten
Temanggung tahun ajaran 2019/2020", col = rainbow(20))
par(mfrow = c(1,1))

plot(PenjMotor$Tahun, PenjMotor$Honda, type = "o", col = "blue")

Tahun = PenjMotor$Tahun
Motor = PenjMotor$Honda
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legend(2006, 6, c("Honda", "Yamaha", "Suzuki"), cex = 0.8, col =
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Bulan Mei 2018", xlab = "Jumlah Kematian", ylab = "Frekuensi
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boxplot.stats(Jml2019_MEI$JUMLAH)$out

boxplot(Jml2018_MEI$JUMLAH)
boxplot.stats(Jml2018_MEI$JUMLAH)$out

plot(Jml2019_MEI$JUMLAH, xlab = "Index Kelurahan", ylab = "Jumlah
Kematian", main = "Data Kematian di DKI Jakarta pada bulan Mei
2019")

plot(Jml2018_MEI$JUMLAH, xlab = "Index Kelurahan", ylab = "Jumlah
Kematian", main = "Data Kematian di DKI Jakarta pada bulan Mei
2018")
```